



AMENDMENT UNDER 37 C.F.R. § 1.116
U.S. Appl. No. 10/733,398

Attorney Docket No. Q78757

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (previously presented): A method of determining a quality measure of a position measurement method for a cellular telecommunication network, the method comprising the steps of:

identification of a first measurement area having at least a predefined number of neighboring first cells, the first measurement area belonging to a selected class of measurement areas,

defining of first sub-areas in the first measurement area by applying a predefined grid on the first measurement area,

performing position measurements by means of the position measurement method in at least a sub-set of the first sub-areas,

determining of measurement errors for the position measurements,

determining of the quality measure based on the measurement errors.

2. (previously presented): The method of claim 1, whereby the first class is defined by a minimum first size of the first cells and further comprising:

identification of a second measurement area having at least the predefined number of neighboring second cells, each one of the second cells having a maximum second size, whereby the second size is smaller than the first size,

defining of second sub-areas in the second measurement area by applying a second predefined grid on the second measurement area,

performing position measurements by means of the position measurement method in at least a sub-set of the second sub-areas.

3. (previously presented): The method of claim 2, further comprising selecting of at least a predefined fraction of the first and second sub-areas for the subset and performing a specified minimum number of position measurements per sub-area.

4. (previously presented): The method of claim 2, further comprising identification of at least an additional third measurement area having the predefined number of neighboring third cells, the third cells having at least a third intermediary size between the first size and the second size,

defining of third sub-areas in the third measurement area by applying a third predefined grid on the third measurement area,

providing a measurement route for each one of the measurement areas, each one of the measurement routes having a length of a multiple of the square root of the respective measurement area.

5. (original): The method of claim 4, each one of the measurement routes having measurement route segments which are about evenly distributed in the respective measurement area.

6. (previously presented): The method of claim 4, the position measurements being performed at equidistant points of time or distance while traveling along the measurement route.

7. (previously presented): The method of claim 4, further comprising providing a speed profile for performing of the position measurements when traveling along the measurement route.

8. (original): The method of claim 1, further comprising defining a set of position measurement conditions and performing of the position measurements under all of the position measurement conditions in the measurement areas.

9. (currently amended): A computer program product stored in a computer readable medium, in particular digital storage medium, for planning of position measurements for the purpose of determining a quality measure of a position measurement method for a cellular telecommunication network, comprising program instruction means for performing the steps of:

accessing of cartographic and network topology data for the cellular telecommunication network,

identification of a first measurement area having at least a predefined number of neighboring first cells, the first cells having at least a first size, the identification being performed on the basis of the cartographic and/or network topology data,

defining of first sub-areas in the first measurement area by applying a predefined grid on the first measurement area,

identification of a second measurement area having at least the predefined number of neighboring second cells, each one of the second cells having a maximum second size, whereby the second size is smaller than the first size, the identification being performed on the basis of the cartographic and/or network topology data,

defining of second sub-areas in the second measurement area by applying a second predefined grid on the second measurement area,

providing a measurement plan for the first and second measurement areas,

wherein a sub-area is where a separate position measurement is to be performed.

10. (currently amended): A computer system for planning and/or optimization of a cellular telecommunication network, the computer system comprising:

means for providing cartographic and network topology data of the cellular telecommunication network,

means for identification of a first measurement area having at least a predefined number of neighboring first cells, the first cells having at least a first size, the identification being performed on the basis of the cartographic and/or network topology data,

means for defining of first sub-areas in the first measurement area by applying a predefined grid on the first measurement area,

means for identification of a second measurement area having at least the predefined number of neighboring second cells, each one of the second cells having a maximum second size, whereby the second size is smaller than the first size, the identification being performed on the basis of the cartographic and/or network topology data,

means for defining of second sub-areas in the second measurement area by applying a second predefined grid on the second measurement area,

means for providing a measurement plan for the first and second measurement areas,

wherein a sub-area is where a separate position measurement is to be performed.

11. (previously presented): The method of claim 2, further comprising determining a total quality measure for the entire first measurement area, and determining a total quality measure for the entire second measurement area.

12. (previously presented): The method of claim 2, wherein defining of first and second sub-areas in the respective first and second measurement areas, said first and second measurement areas are divided into the same number of sub-areas.